

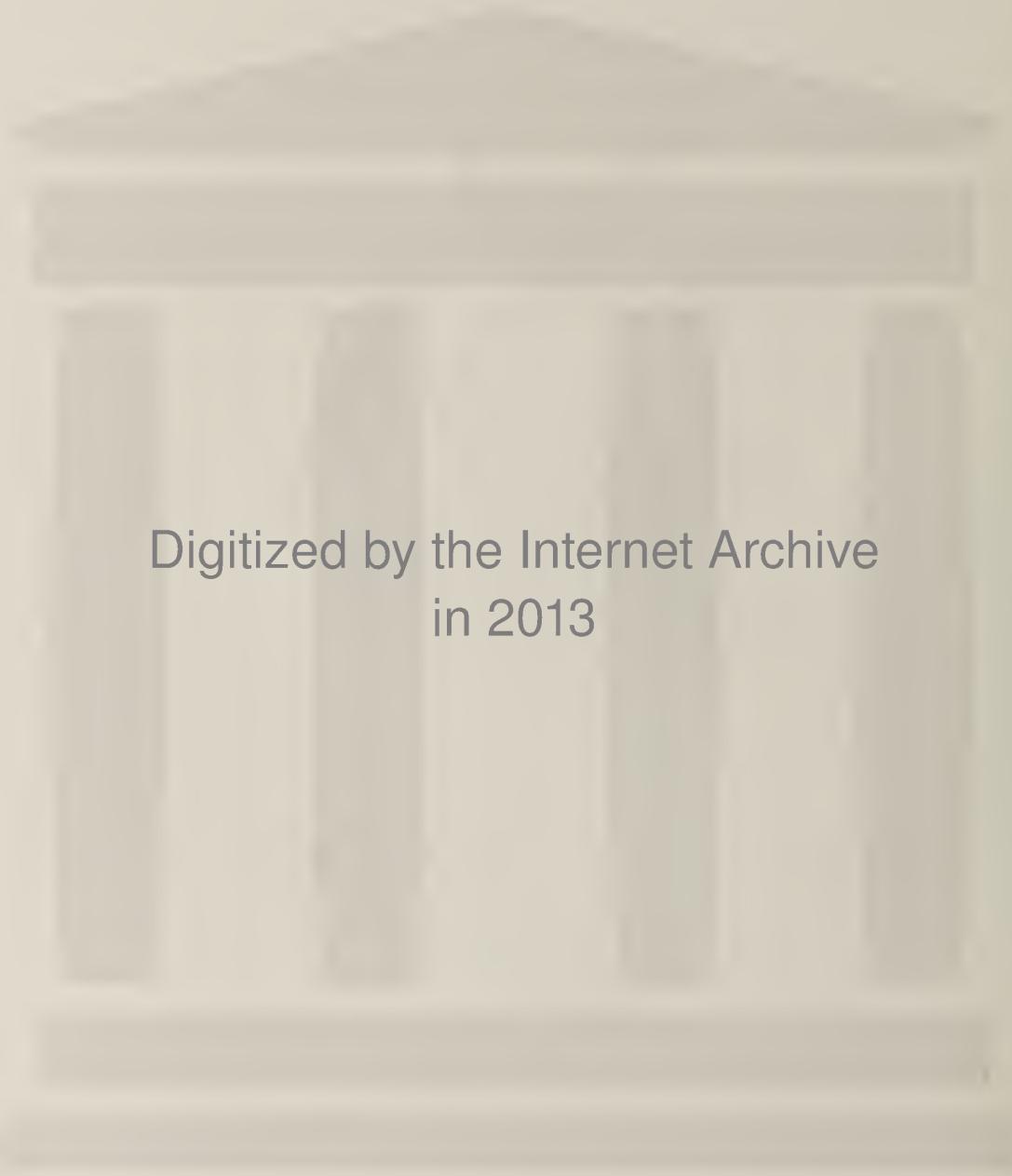


CARLETON UNIVERSITY

Ottawa, Ontario

Canada

128th Convocation
Thursday June 15, 2006



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Carleton University
2006 Spring Convocation

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Convocation at Carleton University

History

Carleton University is unique within the Ontario university system for several reasons. It was founded in 1942 through a community movement, initiated by the YMCA, to provide non-sectarian education for the thousands of men and women who came to Ottawa in support of the war effort. Because of these roots, Carleton has, throughout its history, attempted to meet the needs of the community by making its programs and resources widely available through innovative technologies and life-long learning opportunities.

Today, Carleton stands among the best comprehensive universities in Canada. It is a dynamic, research-intensive university, committed to ensuring an outstanding learning experience for its more than 23,000 students. The University offers 65 programs of study in areas as diverse as public affairs, journalism, art and culture, engineering, high technology, and international studies.

Carleton awarded its first degrees in 1946, three in public administration and three in journalism. Sixty years later, the University has reached another milestone as we celebrate our 100,000th graduate.

Today's Convocation ceremony (the calling together of the academic assembly) has its roots in university traditions of medieval Europe.



Coat of Arms

The coat of arms was presented to the University by His Excellency The Right Honourable Ramon John Hnatyshyn, Governor General of Canada, on November 15, 1992, as part of Carleton's 50th anniversary celebrations. It is described in heraldic terms as follows:

"Sable a maple leaf Gules irradiated and charged with an open book Argent; And for a Crest: on a wreath Argent Sable and Gules a Phoenix Gules quilled and beaked Or issuing from flames proper; And for a Motto: Ours the Task Eternal; And for Supporters: on a grassy mount on either side a raven Sable beaked and membered or armed Gules."

The open book on the maple leaf signifies that Carleton University is in the nation's capital and that learning is open to all who wish to partake of it. The phoenix, the legendary eternal bird, symbolizes the renewing of learning from older foundations, in recognition of Henry Marshall Tory's role in the founding of the University when he was 78 years old. "Ours the Task Eternal" is taken from a Walt Whitman poem entitled "Pioneers" and ties in with the eternal quality of the phoenix.

And so, the Carleton University coat of arms symbolizes sound learning, good citizenship, and the highest hopes of humanity.



The Mace

The mace is a staff symbolizing authority. In the days of knighthood, it was a weapon, but after the 16th century it became solely a symbol of authority carried by a distinguished member of an assembly. It is used on ceremonial occasions to signify the right of an individual or institution to perform a certain function—in the case of universities, to grant degrees.

At Convocation, the mace is carried ahead of the Chancellor as he enters and leaves each ceremony. During the ceremony the mace is displayed on a special stand as an embodiment of the authority of the University.

Carleton's mace was presented to the University in 1976 as a gift from the Chair of the Board of Governors at that time, Mr. Hyman Soloway. It is a silver-plated staff approximately three feet long. At the upper end there is a bowl marked with the University's coat of arms and the University motto in both Latin and English— "Opera Nobis Aeterna" and "Ours the Task Eternal." From the upper portion of the bowl rises a phoenix. Traditional oak leaves surround the lower end of the staff.

The Diploma

The diploma the graduates receive at Convocation is the certificate of qualification which publishes the fact that the student has fulfilled all the requirements and completed the prescribed course of study for the degree. As the senior academic legislative body of the University, it is the Senate which has determined whether the requirements have been met. The signatures of both the Chancellor and the President of the University appear on the diploma: the Chancellor because of his role in conferring the degree, and the President who, as Chair of Senate, certifies that Senate has enacted the required motion to award the degree. The Seal of the University is affixed to the diploma as a mark of authentication.

Academic Dress

The academic dress of Carleton University results from a compromise between that found in the ancient foundations of Britain and Canada and the American Intercollegiate Code. All three hoods—bachelor's, master's, and doctor's—are of the simple or Oxford shape. The bachelor's hood is made of black stuff; the master's and doctor's are made of black silk and all are lined with silver silk with two chevrons, one of red and one of black. From bachelor's to doctor's, the hoods are progressively longer and opened to show more and more of the lining.

The velvet border of the hoods denotes the degrees granted according to the following colour combinations: applied science is orange with a black cord sewn slightly in from the lower border; architecture is cerise; architectural studies is cerise with a black cord sewn slightly in from the lower border; arts is white; commerce is camel brown; computer

science is royal blue; engineering is orange; humanities is white with a red cord sewn slightly in from the lower border; industrial design is dark cardinal; international business is camel brown with a red cord sewn slightly in from the lower border; journalism is white with a black cord sewn slightly in from the lower border; management studies and business administration is camel brown with a black cord sewn slightly in from the lower border; mathematics is hunter green; music is venetian pink; public administration is peacock blue; public affairs and policy management is teal with a gold cord sewn slightly in from the lower border; science is golden yellow; social work is cream; and doctor of philosophy is purple.

The master's and bachelor's gowns, to be worn with the above hoods, are of full length, made of black stuff, with a gathered yoke behind, and long open-fronted sleeves. The doctoral gown is of full-style, made of fine royal blue cloth with facings of light blue silk, with a full gathered yoke behind, and closed sleeves with an opening at the elbows.

The two shades of blue in the doctoral gown are those of the United Nations, and are meant to recognize the University's long-standing interest, from its earliest years, in international affairs and issues. The colours were chosen when the University awarded its first honorary degree, in 1954, to the second Secretary General of the United Nations,

the late Dag Hammarskjöld. The tradition of awarding honorary degrees to Secretaries General of the United Nations has continued since that time.

The gown of the honorary Doctor of Laws, Literature, Music, Science, Engineering, Architecture or Fine Arts is a full robe with bell-shaped sleeves. It is made of fine royal blue cloth with facings and sleeves in light blue silk. The hood is made of the same material as the gown, has the same lining as that for the degrees granted by examination, and is bordered with dark mauve for the degree of Doctor of Laws; vibrant blue for the degree of Doctor of Literature; venetian pink for the degree of Doctor of Music; red for the degree of Doctor of Science; orange for the degree of Doctor of Engineering; cerise for the degree of Doctor of Architecture; and dark cardinal for the degree of Doctor of Fine Arts.

Alumni Park

Weather permitting, today's Convocation reception will be held outdoors in Alumni Park, which was dedicated in 1992 at the initiative of the Carleton University Alumni Association to commemorate the University's 50th anniversary. The picturesque fountain pool, lush flower gardens, tall trees, and a spectacular view of the Rideau River make this park a favourite meeting place for students, faculty, and staff, and an excellent location to take commemorative photos.



The Presiding Officer of Convocation is the Chancellor of the University, Marc Garneau, C.C., C.D., B.Sc., Ph.D., LL.D., P.Eng.

Accompanying him on the podium are David Dunn, B., Arch., representing the Board of Governors, and David W. Atkinson, B.A., M.A., Ph.D., President and Vice-Chancellor.

Assisting the Chancellor are:

Brian C. Mortimer, B.Sc., M.Sc., Ph.D.,
Associate Professor of Mathematics,
Assistant Provost and Clerk of Senate,
and Marshal of Convocation

Donald Russell, B.Eng., M.S., Ph.D., P.Eng.,
Associate Professor of Engineering,
and Associate Marshal of Convocation

Don Bailey, B.Eng., M.Eng., P.Eng.,
Instructor in Engineering,
and Beadle of Convocation

Frederick Michel, B.Sc., M.Sc., Ph.D.,
Associate Professor of Earth Sciences and Environmental
Studies,
and Beadle of Convocation

Kitty Krupop, B.P.E.
Development Officer,
and Beadle of Convocation

Patricia Patrick, B.A.,
Acting Degree Audit Specialist,
and Beadle of Convocation

Cheryl Schramm, B.Eng., M.Eng., P.Eng.,
Instructor in Engineering,
and Beadle of Convocation

Brian Burns, B.Sc., M.A., M.Phil.,
Associate Professor of Industrial Design

Jason Etele, B.Eng., M.App.Sc., Ph.D.,
Assistant Professor of Engineering

Gil Hartley, B.A., M.Eng., Ph.D., P.Eng.,
Professor of Engineering

John Hayes, B.F.A., B.Eng., M.Eng., Ph.D.,
Assistant Professor of Engineering

Thomas Mical, B.Des., M.Arch., M.S., Ph.D.,
Assistant Professor of Architecture

Banu Ormeci, B.S., M.S., Ph.D.,
Assistant Professor of Engineering

Trevor Pearce, B.Eng., M.Eng., Ph.D.,
Associate Professor of Engineering

Alan Steele, B.Sc., Ph.D.,
Associate Professor of Engineering

Also assisting at Convocation:

Registrar's Office
Suzanne Blanchard, B.Comm.
University Registrar

Lindsay Ball
Allison Baldwin, B.Sc.
Elizabeth Carrier
Jerrett Clark, B.A.
Louise DeCristoforo
Sue Dunsmore
Dina Elatawi, B.A.
Nancy Gleeson
Dotty Nwakanma, B.A.
Rebecca Hoskins, B.A.
Carolyn Kibsey, B.A.
Patricia Kenny
Kelly Lauzon, B.Hum., M.A.
Valentina Leon, B.A.
Leslie Main
Neil Macfadyen
Ryan MacKay, B.A.
Dean Mellway, B.A., M.S.W.
Lisa Ralph
Carolyn Richer, B.A.
Judy Sakell, B.Comm.
Ashlea Sharpe, B.A.
Judith Srna, B.A.
Monika St. Jean
Erika Strathearn
Chandra Stratton, B.A.
Janis Taylor
Lisa Tsotroudis, B.A.
Jeffrey Weiser

**Registrar's Office, Faculty of Graduate Studies and
Research**
Linda Backer
Assistant Dean/Registrar

Ann Bold
Judy Bowman
Carol Corkran
Maureen Fagan
Christina Farago
Lee Hull, B.A.

Office of the President
Colleen A. LaPlante, C.M.P.
Wanda Jackson

University Communications
Doug Wotherspoon
Director, Communications and Community Relations

Ann Anderson, B.A.
Roz Crawford
Nanci Jolicoeur
Rick Karayanis
Lin Moody, B.J., M.A.
Cindy Robinson, B.A., M.A.
Chris Strangemore
Margo Thomas

University Ambassadors

Laura Allen
Brandon Bignell
Julie Davis
Jonathan Dawe
Laura Dunbar
Shari Eisen
Melissa Extross
Morgan Faulkner
Benjie Garonce
Shawn Gervais
Chris Glazier
Alexander Gurnham
Jennifer Hallman
Alyx Holden
Gregory Hum
Laurie Lim
Michelle Martin
Kaylee Mask
Mark McHale
Vanessa Rook
Jill Thayer

We would also like to acknowledge the following on-campus departments and ancillary operations for their valuable contribution to the success of the Spring 2006 Convocation:

Aramark
Alumni Services
Archives
Bookstore
CUSERT
Department of Recreation and Athletics
Graphic Services
Instructional Media Services
Parking Services
Physical Plant
Senate Office
University Safety

Honorary Degree Recipient



Philip Lapp

**Philip Lapp, O.C., B.A.Sc., S.M., Sc.D.,
Hon. LL.D., P.Eng., F.R.S.C.**

Philip Lapp, an aeronautical engineer and physicist, will be awarded the degree of Doctor of Engineering, *honoris causa*, at the 9:30 a.m. ceremony on Thursday, June 15, "in recognition of a distinguished career in the Canadian aerospace industry."

Philip Lapp's contributions to aeronautical, aerospace, and communications science and technology have played a very significant part in Canada's aerospace industry. He joined de Havilland Aircraft of Canada in the mid-1950s and more than a decade later co-founded Spar Aerospace, which developed and built the Canadarm used by the NASA Space Shuttle program. By the late 1960s, Mr. Lapp had established a successful consulting engineering business which, over the next 37 years, led assignments in such areas as guidance and inertial navigation, anti-aircraft missile defence, infrared detection and optical surveillance, space technology, remote sensing, surveying and mapping, engineering education and human resource planning. A former president of the Canadian Council of Professional Engineers, Mr. Lapp has helped forge links between industry and the academic world and to humanize the engineering profession by evaluating the impact of new designs on society.

Order of Proceedings

Thursday, June 15, 9:30 a.m.

Chancellor Marc Garneau, C.C., C.D., B.Sc., Ph.D., LL.D., P.Eng., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

Processional Music

John Robert Coghill Jr., B.Mus. (bagpipes)

Garry Matthews (snare drum)

Craig Moffatt (bagpipes)

O Canada*

(the audience is invited to sing)

Welcome by the Master of Ceremonies

Alan Harrison, B.A., M.A., Ph.D.,

Provost and Vice-President (Academic)

Conferring of the Degree of Doctor of Engineering, *honoris causa*, upon

Philip Lapp, O.C., B.A.Sc., S.M., Sc.D., Hon.LL.D., P.Eng., F.R.S.C.

(presented by Jonathan Beddoes, B.Eng., M.Eng., Ph.D., P.Eng., Professor of Engineering (Mechanical and Aerospace))

Convocation Address

Philip Lapp

Conferring of Degrees by Examination

Awarding of Medals

Presentation of the HM Tory Award to

Alex Smith Windsor

(presented by Shawn Menard, CUSA President, and

Ann Tierney, Associate Vice-President, Student and Academic Support Services)

Presentation of the Carleton University Students' Association Honour Award for Service to Michael Karakolis

(presented by Shawn Menard, CUSA President, and

Ann Tierney, Associate Vice-President, Student and Academic Support Services)

Carleton University Alumni Association Welcome

Judy Moschuk, Edmonton Branch President, B.A./93

Recessional Music

**see next page for wording*

O Canada

*O Canada! Our home and native land!
True patriot love in all thy sons command.
With glowing hearts we see thee rise,
The True North strong and free!
From far and wide, O Canada,
We stand on guard for thee.
God keep our land glorious and free!
O Canada, we stand on guard for thee.
O Canada, we stand on guard for thee.*

*O Canada! Terre de nos aïeux,
Ton front est ceint de fleurons glorieux.
Car ton bras sait porter l'épée,
Il sait porter la croix.
Ton histoire est une épopée,
Des plus brillants exploits.
Et ta valeur, de foi trempée,
Protégera nos foyers et nos droits.
Protégera nos foyers et nos droits.*

2006 Award Recipients



Henry Marshall Tory Award

Established in 1950 by the Students' Council of Carleton College, the H.M. Tory Award is presented annually to an outstanding graduating student who has combined excellence in academics with demonstrated leadership and broad participation in extracurricular activities at Carleton.

Alex Smith-Windsor, an Aerospace Engineering student, has been selected this year to receive the prestigious HM Tory Award. During his years at Carleton, Alex combined a high level of academic achievement with extensive involvement in programs and activities to benefit students. Alex has volunteered with the CUSA Foot Patrol Service, a program committed to the safety of the Carleton campus, and has received the "Male Patroller of the Year" award.

Previously, Alex has been the Vice-President of Academic Issues for the Carleton Student Engineering Society and this past school year was elected President of the Society. As President, he organized the Carleton delegation for the Ontario Engineering Competition at which Carleton won two first place and two second place medals in only six competitions. He has coordinated Carleton's involvement in National Engineering Week and has worked diligently to expand the services and events available for engineering students here at Carleton. He has represented his peers in student engineering associations at both the provincial and national level.

Alex's professors and fellow students have recommended him for this award noting he is a bright self-starter with an excellent sense of humour and a strong dedication to all aspects of student life at Carleton.



Carleton University Students' Association Honour Award for Service

The Honour Awards for Service are presented annually to graduating students who have served the Carleton University community through their involvement in student government, student associations, athletics, or extracurricular activities for the benefit of all students.

Michael Karakolis, an Aerospace Engineering student, has been selected for a Carleton University Students' Association Honour Award for Service based on his outstanding academic achievement and his dedication to the Carleton community. His many contributions to student life at Carleton include service as Director of the Carleton University Student Emergency Response Team and service as a Residence Fellow.

Recipients of Degrees

Doctor of Philosophy

(presented by Professor John Shepherd,
Associate Dean of the Faculty of
Graduate Studies and Research)

Degrees conferred at Spring Convocation
are awarded by Senate in February and
in June. Degrees awarded in February are
denoted by an asterisk (*)

Martin John Conlon

B.Eng., M.Eng.

Mechanical Engineering
Potential Nonlinear Behaviour with
VAD Use in Humans
Supervisors: D. L. Russell and
T. Mussivand

Shaodong Wang*

B.Sc., M.Sc.

Mechanical Engineering
Simulation on the Welding Process of
Low-Alloy Steel by Finite Element
Method
Supervisor: J.A. Goldak

Abdulkareem Bala Adinoyi

B.Eng., M.Sc.

Electrical Engineering
Multi-Antenna and Relaying
Techniques in Wireless
Communication Networks
Supervisor: H. Yanikomeroglu

Kayvan Mosharaf Ghahfarokhi*

B.Sc., M.Sc.

Electrical Engineering
Resource Management and Service
Differentiation in WDM Networks
Supervisors: J. Talim and
I. Lambadaris

Carlos Herman Rentel Gómez*

B.Eng., M.Sc.

Electrical Engineering
Network Time Synchronization and
Code-Based Scheduling for Wireless
Ad Hoc Networks
Supervisor: T. Kunz

Leili Shafai*

B.Sc., M.Sc.

Electrical Engineering
Novel Membrane-Backed Defected
Ground Plane Transmission Line
Phase Shifter
Supervisors: A. Petosa and J. Wright

Yiqun Helen Tang*

B.Eng., M.Eng.

Electrical Engineering
Fair Medium Access Control Scheme
for Packet Ring Networks
Supervisor: J. Lambadaris

Xiaojing Tao

B.Eng., M.App.Sc.

Electrical Engineering
Traffic Balancing: A Method for
Exploiting System Capacity in
Wireless Ad Hoc Networks
Supervisors: D. Falconer and T. Kunz

Haiying Zhu*

B.Eng., M.App.Sc.

Electrical Engineering
Scheduling Algorithms for OFDM
Broadband Wireless Systems
Supervisor: R. Hafez

Master of Applied Science

(presented by Professor John Shepherd,
Associate Dean of the Faculty of
Graduate Studies and Research)

Degrees conferred at Spring Convocation
are awarded by Senate in February and
in June. Degrees awarded in February are
denoted by an asterisk (*)

Ryan James Beaubien

B.Eng.

Aerospace Engineering
Improved Frequency Domain Flutter
Analysis Using Computational Fluid
Dynamics

Gregory Lloyd Davis*

B.Eng.

Aerospace Engineering
Trailing Edge Flap Control of
Dynamic Stall on Helicopter Rotor
Blades

Magali Francoise Duval*

B.Eng.

Aerospace Engineering
Investigation and Modelling of the
Heat Transfer Process in Carbon
Fibre/Epoxy Composite Tools

Erin Diane Farbar* <i>B.Eng.</i> Aerospace Engineering Experimental and Numerical Study of a Hydrogen Peroxide/Hydroxyl Terminated Polybutadiene Hybrid Rocket	Timothy Lewis* <i>B.Eng.</i> Mechanical Engineering T-Stress Solutions for Cracks at Notches and in Cylinders	Celine Emmanuelle Marie Fletcher <i>B.Eng.</i> Electrical Engineering Voltage Controlled Oscillator Phase Noise Reduction Technique
Michel Garcia <i>B.Eng.</i> Aerospace Engineering Axially Grooved and Arterial Heat Pipe Testing and Numerical Analysis	Wael Moustafa <i>B.Sc.</i> Mechanical Engineering Consideration of the Effect of Vehicle Stability Augmentation Algorithm Failure Modes on Vehicle Behaviour	Wenjie Huang <i>B.Eng.</i> Electrical Engineering A 0.18 Micrometres CMOS Half-Rate Clock and Data Recovery Circuit with Reference-less Dual Loop
Samira Kazan* <i>B.Sc.</i> Aerospace Engineering Measurement and Prediction of the Hemodynamic Effects of Passive Leg Elevation	Jackie Yu <i>B.Eng.</i> Mechanical Engineering T-Stress Solutions of Cracks Emanating from Circular Holes	Toqeer Ahmad Israr* <i>B.Eng.</i> Electrical Engineering Transformation of UML 2.0 Models with Performance Annotations to Core Scenario Models
Travis Mikjaniec <i>B.Eng.</i> Aerospace Engineering The Preliminary Design of the SHARCS Rotor Blade	Hazem Abdel-Maguid* <i>B.Sc.</i> Electrical Engineering Analysis of Bang-Bang Clock and Data Recovery	Navdeep Kaur Kapoor* <i>B.Eng.</i> Electrical Engineering Dynamic Matching of Independent Jobs on a Computing Grid
Marc-André Müller <i>B.Eng.</i> Aerospace Engineering Design of an Active Fibre Composite Geometric Modal Sensor for Use in a Helicopter Rotor Blade	Giuseppe Agnello* <i>B.Eng.</i> Electrical Engineering Parametric Mixing for Centralized VoIP Conferencing Using ITU-T Recommendation G.722.2	Vincent Ibrahim Karam <i>B.Eng.</i> Electrical Engineering A 5.8mW Fully Integrated Multi- Gigahertz Frequency Synthesizer in 0.13-Micrometres CMOS
Shane Storring <i>B.Eng.</i> Aerospace Engineering Design and Manufacturing of Loop Heat Pipes for Electronics Cooling	Alexander Andreyuk <i>M.Sc.</i> Electrical Engineering Optical Properties of a Five-Layer Slab With Long-Period Gratings	Muhammad Ali Khan* <i>B.Eng.</i> Electrical Engineering Latch-Based Decimation Fir Filters
Tatjana Zoric <i>B.Eng.</i> Aerospace Engineering Experimental Investigation of Secondary Flows in a Family of Three Highly Loaded Low-Pressure Turbine Cascades	Yingzhi Chen <i>B.Sc., M.Sc.</i> Electrical Engineering Experimental Characterization of an Ultra-Wideband Indoor Wireless Channel	Wael Akram Hanafy Mahmoud <i>B.Eng.</i> Electrical Engineering Overlap-Save Receivers for Advanced DS-CDMA Wireless Systems
Lorne Gordon Allaby <i>B.Eng.</i> Mechanical Engineering Maximizing the Performance of Semi- Closed Oxygen/Carbon Dioxide Gas Turbine Combined Cycles for Power Generation	Aditi Das <i>B.Tech.</i> Electrical Engineering Non-Linear Thermal Modeling Using Neural Networks	Masoud Mashhouri* <i>B.Sc.</i> Electrical Engineering Broadband Point-to-Point Wireless Channels Over Flat Land with Low Antennas
Shane Brian Flynn <i>B.Eng.</i> Mechanical Engineering Using Annealed Pyrolytic Graphite in Conduction Cooled Electronics Cooling Applications	Ziad El-Khatib* <i>B.A.Sc.</i> Electrical Engineering Fully-Integrated Fully-Differential Silicon RF CMOS Distributed Amplifier Based on Multi-Tanh Linearization Principle	Daniel Joseph Olszewski* <i>B.Eng.</i> Electrical Engineering Tunable Filter and Receive Signal Strength Indicator for Detecting Whitespace in the Frequency Spectrum

Karen Anne Rideout <i>B.Sc.</i> Electrical Engineering Adverse Medical Event Reduction Technologies Identification of Primary Risk Factors of Adverse Medical Events Using Artificial Neural Networks	Anne Euchler* <i>Dip.</i> Mechanical	Jihong Yang* <i>B.Sc.</i> Telecommunications Technology Management Sales Generated Using Open Source Software Projects
Fiona Jennifer Grace Shearer* <i>B.Eng.</i> Electrical Engineering CMOS Analog Cubing Circuits for Radio-Over-Fiber Predistortion	Martin Euchler* <i>Dip.</i> Mechanical	
Andrew Thoe Yee Soon <i>B.Eng.</i> Electrical Engineering Multi-Resolution Modeling for Extremely High Resolution 3D Scanned Faces	Amandeep Singh Sandha* <i>B.Eng.</i> Mechanical	
Xiaoguang Wang* <i>B.Eng.</i> Electrical Engineering Robust Control for Bilateral Teleoperators with Soft Environments	Hui Wang <i>B.Eng.</i> Mechanical	
Mark William Wyville* <i>B.Eng.</i> Electrical Engineering Dielectric Resonator Antenna Arrays in the EHF Band	Shawn David Nicholl* <i>B.Eng.</i> Electrical	
Weiyu Zheng <i>B.Eng., M.Eng.</i> Electrical Engineering Modeling for Haptics-Based Surgical Simulation	Richard A. Alam <i>B.Eng., B.Sc.</i> Telecommunications Technology Management Open Source Software Projects, Market Offers, and Competitive Advantage	
Master of Engineering		
<i>(presented by Professor John Shepherd, Associate Dean of the Faculty of Graduate Studies and Research)</i>		
Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)		
Matthew D.G. Cross <i>B.Eng.</i> Aerospace	Michael Ghobros* <i>B.Sc.</i> Telecommunications Technology Management The Relationship Between Capability Platform and Performance for Software Startups	
Jeffrey T. Wilkins <i>B.Eng.</i> Aerospace	Scott John Miller <i>B.Eng.</i> Telecommunications Technology Management Software Product Architectural Integrity During Organizational Distress	
	Piedad Bibiana Pinzon <i>B.Sc.</i> Telecommunications Technology Management The Relationship Between Structure and Performance of Open Source Projects: Case of Learning Content Management Systems	
	Rizwan Ur Rehman <i>B.Sc., M.B.A.</i> Telecommunications Technology Management Factors That Contribute to Open Source Software Project Success	

Bachelor of Engineering

(presented by Professor Samy A. Mahmoud, Dean of the Faculty of Engineering and Design)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

AEROSPACE

Nasr Elwaleed Ali*

Hajer Mahmoud Awatta
Co-operative Education
with distinction

Michael Bach

Nicholas Raymond Bourgeois
Co-operative Education
with high distinction

Courtney Bridgewater
with distinction

Luc Brunet
Co-operative Education
with high distinction

Jason Bryans*
with distinction

Jocque Romain Butler
Minor in Business
Co-operative Education
with distinction

Sébastien P. Cayouette

Victor Chu
Co-operative Education
with distinction

Zachary R. Cimon

Mark Albert Coulombe

Rebecca Elise Cromwell

Barima Kwame Dankwa Minor in Business Co-operative Education <i>with high distinction</i>	Ryan Michael Kozlowski*	Allen G. C. Seto Co-operative Education <i>with distinction</i>
Brian Christopher Darvell	Jeffrey George Kresan* Minor in Business	Christopher Michael Short <i>with high distinction</i>
Jonathon Dilworth Co-operative Education <i>with distinction</i>	Ryan Thomas Leonard	Maria Short <i>with high distinction</i>
Andrew Arthur Dobson	Wayne Y. Leung Co-operative Education	Kenneth Gordon Shouldice Co-operative Education
Stephen Finlay Co-operative Education <i>with distinction</i>	Stian Lillehovde	Bradley William Smith
Kent Fowlie Co-operative Education	Hung-Chieh Lin	Alex Smith-Windsor <i>with high distinction</i>
Christian Dominique Gagnon Co-operative Education <i>with high distinction</i>	Aaron Loiselle Co-operative Education <i>with high distinction</i>	James Min-Soo Song
David Galway <i>with high distinction</i>	Brian Kennedy Lynch <i>with distinction</i>	Nicholas Yung Wu Suen*
Garin Helmut Gaudet <i>with high distinction</i>	Dennis Steven Mandac	Mark Adam Swartz Co-operative Education <i>with high distinction</i>
Jessica Lynne Godin*	Nathan John Maron <i>with distinction</i>	Jéan-François Thibault
Leor David Grebler*	Charles Guillaume Maxwell	Daniel Robert Thompson Co-operative Education <i>with distinction</i>
James Griffiths <i>with distinction</i>	Brian James McAninch* <i>with distinction</i>	Trevor Robert Kelly Vienneau
Lisa Andrea Hibbert Co-operative Education	Brett Fraser McKnight* <i>with distinction</i>	Matthew Richard Wells Minor in Business Co-operative Education <i>with distinction</i>
Jae Ryung Hong	Sean McTavish Co-operative Education <i>with high distinction</i>	Jared Steven Wright
Kerry Stephen Hutton	Craig Gordon Merrett Minor in Mathematics <i>with high distinction</i>	Edwin Patrick Yost
Peter Willi Jansen <i>with high distinction</i>	Oays Nazarali Minor in Business <i>with high distinction</i>	Benjamin Daniel Youé
Michael Muron Karakolis Co-operative Education <i>with high distinction</i>	Harun Oria <i>with distinction</i>	Cavan Theo van Ulft*
Belay Zeleke Kebede Co-operative Education <i>with distinction</i>	Crystal Anne Orlaw	ELECTRICAL
Sarfraz Ahmed Khan Minor in Spanish	Joel John Louis Ouellette*	Ali Al-Farhan
Alireza Khani	Patrick Byron Perrier Co-operative Education <i>with distinction</i>	Bismark Ampofo* <i>with distinction</i>
Piotr Joseph Klimas	Robert Andreas Petermann*	Farrukh Anis
	Nicolas Christophe Pignol	Roby G. Ayres
	Alexandre Schmid	Husnaini Azmy
		Mehrdad Bafekr*
		Daniel John Bradley*

Colin Chan	Elizabeth Dorothy Iglesias Co-operative Education <i>with high distinction</i>	Suthakaran Navaratnam
Maimuna Fatimah Chawla <i>with high distinction</i>	Ali Syed Jafri	Theresa Nguyen <i>with high distinction</i>
Mervah Chawla <i>with high distinction</i>	Dan Jiang Minor in Statistics <i>with distinction</i>	Kwesi Nkansah*
John Clarke	Xiaofeng Jiang	Farah Nazli Omar
Salvatore DeMarco	Yan Jin <i>with high distinction</i>	Jordan Johnathan Parsons*
Nhan Do <i>with distinction</i>	Daniel Joyce	Piragalathan Pathmasenan Co-operative Education <i>with distinction</i>
Thuan Van Do <i>with distinction</i>	Dhanasuthan Kaneshapillai Co-operative Education <i>with distinction</i>	Pavel S. Peev <i>with high distinction</i>
Robin Kristy Durnford Co-operative Education <i>with distinction</i>	Yevgeniy Katz	Jason Ronald Prince
Pascal Gabriel Durocher*	Tariq Barakat Khader*	Lee Ming Quach
Mohamed Ahmed Elbadawi*	Kelly Katharina Kinahan Co-operative Education <i>with high distinction</i>	Sikdar Taposh Rahman
Michael Frank William Ellis*	Darryl Kostka <i>with distinction</i>	Vaseekaran Ramanathan
Lado Filipovic Co-operative Education <i>with high distinction</i>	Huyen Le Co-operative Education <i>with high distinction</i>	Ahilan Ratnathurai
John Gavin Franklyne*	Jack Yu Cheng Lee	Andrew C. W. Robinson*
Christopher Daniel Fridgen Minor in Business <i>with high distinction</i>	Grace Shiouming Lo Co-operative Education <i>with high distinction</i>	Andrew Ralph Rowden <i>with high distinction</i>
Purnima Rameshwar Goge Co-operative Education <i>with distinction</i>	David Cang Trung Luong <i>with distinction</i>	Angela Marie Rowe Co-operative Education <i>with high distinction</i>
Satheejan Gugananthan	Julian Mack	Ting Ruan
Jeremy Michael Gurski* <i>with distinction</i>	Lisa Catherine Meitin <i>with high distinction</i>	Ana Maria Salazar
Nagash Mohamed Hagos*	Patricia A. Mermuys Co-operative Education <i>with distinction</i>	Abubaker Mahdi Ali Salem
Abdallah Hamdan Minor in Business	Frank James Mouawad	Martin Savard
Ibrahim Thanaa Eldin Hamdy*	Imran Muhammad	Peter Siyamalan Soundararajan
Kristoffer Mark Hammel <i>with distinction</i>	Manmit Muker Co-operative Education <i>with high distinction</i>	Prabaharan Supiramaniam
William Gordon Hudson		Nikki Morgan Sutherland
Man Hong Hy <i>with distinction</i>		Piotr Jacek Sysak
		Aviviere Telang Minor in Business <i>with high distinction</i>
		Jeffrey Territo Co-operative Education <i>with distinction</i>

Abiramy Thiagarajah	Nicholas Frederick De Salvo*	Sangtae Kim*
Guy Michael Ridout Thomas	Steven Deslandes Co-operative Education <i>with distinction</i>	Concentration in Computer-Integrated Manufacturing <i>with distinction</i>
Lawrence Tong	Josee Dubosq	Luke Anthony Klostranec
Anh Toan Tran <i>with distinction</i>	Kyle G. Eckhardt	Sylvester Kuma
James F. Wallwork*	Bouria Mohammad M. R. Faqih <i>with distinction</i>	Concentration in Computer-Integrated Manufacturing
Hsi-Cheng Don Wei	Kevin Fennell	Mark Christopher Léger
James Anthony Yaziji* <i>with distinction</i>	Kathleen Frances Forestell	Melany Lepage*
Amy Elisabeth Yee	Brigid Gillis	Robert Allan Little <i>with high distinction</i>
Anna Zaki	Noah Goddard*	Christopher Douglas MacGillivray*
MECHANICAL	Kristina Michelle Haase*	Adam L. Machado
Aleem Hiba-Tul Ahmed	Joshua Hale Co-operative Education <i>with high distinction</i>	Concentration in Computer-Integrated Manufacturing Minor in Economics <i>with distinction</i>
Abeer Al-Azzawi <i>with high distinction</i>	M. A. Ziaul Haque* <i>with high distinction</i>	Andrei Paul Mariciuc
Tanner Glen Ball	Douglas Hart <i>with distinction</i>	Patrick Marmillod
Jonathan Patrick Bayne*	Gültekin Samil Hazer* Concentration in Computer-Integrated Manufacturing Co-operative Education <i>with distinction</i>	Co-operative Education <i>with distinction</i>
Franchino Bonanno* Concentration in Computer-Integrated Manufacturing Minor in Mathematics	Thomas Henhoeffer <i>with high distinction</i>	Thomas Corey McRobbie <i>with high distinction</i>
Travis Lee Brown Concentration in Computer-Integrated Manufacturing Minor in Mathematics	Jason Hickey Co-operative Education <i>with high distinction</i>	Steven Jarek Mogridge
Thomas Michael Bukacek	Jack Jensen <i>with distinction</i>	Jonathan Optis <i>with distinction</i>
Jason Dylan Chahal	Nathaniel Bernard Juneau Co-operative Education <i>with high distinction</i>	Monika Rostkowska
Derrick Chan* Concentration in Computer-Integrated Manufacturing	Balakanthan Kanagasabai* Concentration in Computer-Integrated Manufacturing	Rene Sabourin
Kenny Chau* Concentration in Computer-Integrated Manufacturing Minor in Mathematics <i>with distinction</i>	Samit Kapoor* Co-operative Education <i>with distinction</i>	Thomas Savard* Minor in Economics
Brian Chiu*	Ozma Atta Khan	Mark Stinson*
Adam Coderre Co-operative Education <i>with high distinction</i>		Eva Driscoll Szabo Minor in Mathematics <i>with high distinction</i>
Ian Currie Creelman*		Michael Tan*
		Ivan Ting
		Paul Trisolini
		Nazim Ulusoy Concentration in Computer-Integrated Manufacturing

James Wanless*	Barbara Dora Di Bacco <i>with high distinction</i>	Kristina K. Yovcheva
Patrick Nigel Wiles	Jenna Kate Drupsteen	Alvin Gar Wah Yung <i>B.Sc.</i> <i>with distinction</i>
Sebastian Wszolek	Samnang Eav <i>Minor in Art History</i>	
Roger Lok Chi Yau Minor in Economics <i>with distinction</i>	Christopher Lyle Edwards <i>with distinction</i>	
M. Nader Zaheer* Concentration in Computer-Integrated Manufacturing	Roy Eng* <i>with distinction</i>	
Hui Zhou* Concentration in Computer-Integrated Manufacturing <i>with distinction</i>	Aldus Ho Lam Fong Minor in Business <i>with high distinction</i>	

Bachelor of Industrial Design

(presented by Associate Professor
Lois Frankel, Director of the School of
Industrial Design)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Christiane Aitken* <i>with distinction</i>	Benjamin Michael Harrison* <i>with high distinction</i>
Marta Antoszkiewicz Minor in Business <i>with high distinction</i>	Bianca Jade Leigh <i>with distinction</i>
Soo Ryun Baik	Pollyanna Ling <i>with distinction</i>
Nikolas Beaudin <i>with high distinction</i>	Yvonna Joanna Malyk Minor in German <i>with distinction</i>
Robert John Beland Minor in Psychology <i>with distinction</i>	Elizabeth C. Mitchell Minor in Business <i>with high distinction</i>
Ilana Ben-Ari <i>with distinction</i>	Kong Joo Moon Minor in Psychology
Stacey Ellen Black Co-operative Education <i>with high distinction</i>	Grace Poon
Adib Dagher Minor in Psychology <i>with distinction</i>	Michelle Sarah Rousselle
	Lindsey Segsworth <i>with distinction</i>
	Amy Chau Ying Tong Minor in Psychology
	Dawn Elizabeth Wintour
	Danielle Wojtyniak <i>with high distinction</i>
	Christopher Wong <i>with high distinction</i>
	Randy Yang <i>with high distinction</i>
	Kevin James Yip

Medallists in the Graduating Class

University Medals (Undergraduate)

Awarded annually, when merited, to the graduating students standing highest in architecture, architectural studies, arts, commerce, computer science, engineering, humanities, industrial design, interfaculty studies, international business, journalism, mathematics, music, public administration, public affairs and policy management, science, and social work.

University Medal in Industrial Design

Elizabeth C. Mitchell

Bachelor of Industrial Design

with high distinction

Senate Medals

Awarded, when merited, to graduating students of outstanding academic achievement.

Doctoral Level

Kayvan Mosharaf Ghahfarokhi

Doctor of Philosophy

Electrical Engineering

Master's Level

Fiona Jennifer Grace Shearer

Master of Applied Science

Electrical Engineering

Undergraduate Level

Bachelor of Engineering (Aerospace)

Luc Brunet

with high distinction

Peter Willi Jansen

with high distinction

Sean McTavish

with high distinction

Craig Gordon Merrett

with high distinction

Bachelor of Engineering (Electrical)

Maimuna Fatimah Chawla

with high distinction

Lado Filipovic

with high distinction

Christopher Daniel Fridgen

with high distinction

Elizabeth Dorothy Iglesias

with high distinction

Manmit Muker

with high distinction

Andrew Ralph Rowden
with high distinction

Aviviere Telang
with high distinction

Bachelor of Engineering (Mechanical)

Robert Allan Little
with high distinction

Eva Driscoll Szabo
with high distinction

Convocation Speaker



Monique Aubry Frize

**Monique Aubry Frize, O.C., B.A.Sc.(EE),
P. Eng., M. Phil., D.I.C., M.B.A., Doctorate,
D.U., D.Sc., D.Eng., F.C.A.E., D.HumL.**

As President of the International Network of Women Engineers and Scientists (INWES), Dr. Monique Aubry Frize has worked tirelessly to encourage young women to choose a career in science and engineering. In 1997, Dr. Frize joined Carleton University as a Professor in the Department of Systems and Computer Engineering and the University of Ottawa as a Professor in the School of Information Technology after working as a clinical engineer for 18 years. Dr. Frize held the NSERC/Nortel Chair for women in science and engineering in Ontario between 1997 and 2002. She was the first woman to graduate with an engineering degree at the University of Ottawa. She completed an M.Phil. at Imperial College in London, England, followed by an M.B.A. at Université de Moncton, and a doctorate at Erasmus Universiteit.

In 1989, Dr. Frize was appointed the first holder of the Nortel-NSERC Women in Engineering Chair at the University of New Brunswick (Fredericton), a position that covered the entire country. Among her many achievements, she has been awarded several honorary degrees and was inducted as a Fellow of the Canadian Academy of Engineering and as an Officer of the Order of Canada. In 2000, Dr. Frize received the Women of Distinction Award for the National Capital Region presented by YMCA-YWCA of Ottawa/Carleton. She is a Visiting Professor at Coventry University and an Affiliated Scientist at the Ottawa Hospital Research Institute. She is married to Peter Frize and they have a son, Patrick Nicholas.

Order of Proceedings

Thursday, June 15, 2:00 p.m.

Chancellor Marc Garneau, C.C., C.D., B.Sc., Ph.D., LL.D., P.Eng., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

Processional Music

John Robert Coghill Jr., B.Mus. (bagpipes)

Garry Matthews (snare drum)

Craig Moffatt (bagpipes)

O Canada*

(the audience is invited to sing)

Welcome by the Master of Ceremonies

Alan Harrison, B.A., M.A., Ph.D., Provost and Vice-President (Academic)

Convocation Address

Monique Aubry Frize, O.C., B.A.Sc.(EE), P.Eng., M.Phil., D.I.C., M.B.A.,
Doctorate, D.U., D.Sc., D.Eng., F.C.A.E., D.HumL.

Conferring of Degrees by Examination

Awarding of Medals

Presentation of the Carleton University Students' Association Honour Award for Service to Ahmad Rasem

(presented by Shawn Menard, CUSA President, and Ann Tierney, Associate Vice-President, Student and Academic Support Services)

Carleton University Alumni Association Welcome

Rosanne Howes, Architecture Chapter President, B.Arch./80, M.Arch.

Recessional Music

**see next page for wording*

O Canada

*O Canada! Our home and native land!
True patriot love in all thy sons command.
With glowing hearts we see thee rise,
The True North strong and free!
From far and wide, O Canada,
We stand on guard for thee.
God keep our land glorious and free!
O Canada, we stand on guard for thee.
O Canada, we stand on guard for thee.*

*O Canada! Terre de nos aïeux,
Ton front est ceint de fleurons glorieux.
Car ton bras sait porter l'épée,
Il sait porter la croix.
Ton histoire est une épopée,
Des plus brillants exploits.
Et ta valeur, de foi trempée,
Protégera nos foyers et nos droits.
Protégera nos foyers et nos droits.*

2006 Award Recipient



Carleton University Students' Association Honour Award for Service

The Honour Awards for Service are presented annually to graduating students who have served the Carleton University community through their involvement in student government, student associations, athletics, or extracurricular activities for the benefit of all students.

Ahmad Rasem, a Communications Engineering student, has been selected for a Carleton University Students' Association Honour Award for Service based on his outstanding academic achievements and his contributions to the Faculty of Engineering. Ahmad is actively involved with the Institute of Electrical and Electronics Engineers, has represented the Faculty of Engineering in engineering competitions, and has served as a Nortel Campus Ambassador.

Recipients of Degrees

Doctor of Philosophy

(presented by Professor John Shepherd,
Associate Dean of the Faculty of
Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Rashed Alkaabi

B.Sc., M.Eng.

Civil Engineering
Development of a Framework for Resource Planning and Allocation in Service Organizations
Supervisors: S. Mahmoud and A.O. Abd El Halim

Md. Akhtar Hossain

B.Sc., M.Eng.

Civil Engineering
Modelling Shared Vehicle System Design and Operation Using Discrete-Event Simulation Technique
Supervisor: A. Khan

Xiaolin Qin*

B.Eng., M.Sc., Ph.D.Sc.

Civil Engineering
Real-Time Control and Optimization of Traffic Signal Timing Transition for Emergency Vehicle Preemption
Supervisor: A. M. Khan

Hongpo Xu*

B.Eng., M.Eng.

Civil Engineering
Application of Artificial Neural Networks in Vibration-Based Damage Identification
Supervisor: J. Humar

Ehab Zalok

B.Sc., M.Sc.

Civil Engineering
Design Fires for Commercial Premises
Supervisor: G. Hadjisophocleous

Hamid Reza Salsali

B.Sc., M.Sc.

Environmental Engineering
Producing Enhanced Quality Biosolids Through Anaerobic Digester Optimization
Supervisor: W. Parker

Balasubramaniam Shanchayan

B.Sc.Eng., M.Eng.

Environmental Engineering
Dynamic Analysis of a Biofilter
Treating Atad Off Gases and Dynamic Model Development
Supervisor: W. Parker

Master of Applied Science

(presented by Professor John Shepherd,
Associate Dean of the Faculty of
Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Khalid Alnasser*

B.Sc.

Civil Engineering
Mathematical Investigation of Heat Transfer in Industrial Crude Oil Tank During a Fire

Haoze Deng

B.Eng.

Civil Engineering
A Simplified Method for Nonlinear Cyclic Analysis of Reinforced Concrete Structures: Direct and Energy Based Formulations

Eman Elsayed Elewini*

B.Eng.

Civil Engineering
Performance of Gypsum Board Exposed to Fire

Yu Kang*

B.Eng.

Civil Engineering
Reduction in Fire Resistance of Steel Beams Caused by Partial Fire Protection Loss

Yoon Jeoung Ko*

B.Sc.

Civil Engineering
CFD Study of Balcony Spill Plumes: Focused on the Balcony Area

Shahab Mehregani

B.Sc.

Civil Engineering
Seismic Stability Analysis of Liquefiable Earthdams

Khashayar Refahi* <i>B.Sc.</i> Civil Engineering Seismic Stability and Deformation of Waba Dam	Ganga Dhar Tripathi <i>B.Eng.</i> Civil	Ryan M. Koolwine <i>B.Arch.St.</i> Suburban > (Spec-u-la-tion)
Ramy Hussein A. Soliman El-Basha <i>B.Eng.</i> Civil Engineering Driver Speed Behaviour on Freeway Deceleration Speed-Change Lanes	Bradley Murray Carew <i>B.Sc.</i> Environmental	Christina Gar Yee Lee* <i>B.Arch.Sc.</i> Catching the Breeze: Ventilation Studies as the Generator of Form
Jennifer Anne Stephenson* <i>B.Eng., Dip.</i> Civil Engineering Evaluation of Using Uniform Hazard Spectra for Seismic Design of Canadian Highway Bridges	Quanchang Fei* <i>B.Eng.</i> Environmental	Dinko Sakanovic* <i>B.Arch.St.</i> [Re]visiting the Orphanage
Ruogang Zhao* <i>B.Eng.</i> Civil Engineering A Study on Slotted Square and Rectangular Hollow Structural Section Connections	Andrew Mark Harwood* <i>B.Eng.</i> Environmental	Rachel Sin* <i>B.Arch.Sc.</i> Defining Canadian Identity in the National Cemetery of Canada
Brian J. Henderson* <i>B.A., B.Eng.</i> Environmental Engineering Impacts of Aggregate Quarry Dewatering on Groundwater Management in Ontario	Jie Shen <i>B.Eng.</i> Environmental	Man Yi Tsang <i>B.Arch.St.</i> The Wisdom of Balance: Revealing Taoist Principles Through Architecture
Master of Engineering	Master of Architecture	Bachelor of Engineering
(presented by Professor John Shepherd, Associate Dean of the Faculty of Graduate Studies and Research)	(presented by Professor John Shepherd, Associate Dean of the Faculty of Graduate Studies and Research)	Professor John Chinneck, Associate Dean (Research) of the Faculty of Engineering and Design
Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)	Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)	Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)
Jihad Boutros Aoun* <i>B.Appl.Sc.</i> Civil	Qudsia Aziz <i>B.Arch.</i> Architectural Transformation of Heritage Buildings Case Study: Folk Art Museum Building Sonargaon, Bangladesh	CIVIL
Maqsooda Bibi <i>B.Sc.</i> Civil	Dariusz Jakub Boron <i>B.Arch.St.</i> Infinite Regress: The Blurring of an Architectural Game-Space	Stephen Richard Arends Concentration in Management
Maged M. Elmadhoon* <i>B.Sc.</i> Civil	Ching Shan Alla Cheung* <i>B.Arch.</i> Sonic Architecture: A Modulator of Sound and Space - National Gallery of Sound Art	Alain-Philippe Beauger* Concentration in Management with high distinction
Ahsan Tariq* <i>B.Sc.</i> Civil	Thomas C. J. Davis* <i>B.Arch.St.</i> Sustaining Technology: Questioning the Role of Efficiency in Environmentally-Sustainable Architecture	Richard Cornelis Bongers
	Karam George Georges <i>B.Arch.St., Dip.</i> A Light Railway Station for the City of Ottawa An Urban Gateway	Simon Branch* Concentration in Management
		Christopher Cogliati
		Khalil Dabat* Concentration in Management

Joshua Sterline Day Concentration in Management	Alessandro Mauro Qualizza Concentration in Management	Ashima Kudaisya Co-operative Education <i>with high distinction</i>
Ifeyinwa Hilda Esedebe Concentration in Management <i>with high distinction</i>	Obokeng Rabai	Thabo Lesole
Remo Gentile* Concentration in Management Co-operative Education <i>with distinction</i>	Farshad Safiardestani*	Tao Ma
Christian Glorieux Concentration in Management	Justin Swan* Concentration in Management <i>with distinction</i>	Megha Malhotra Co-operative Education <i>with high distinction</i>
Liang Jun Gong*	Craig Steven Wadsworth <i>with distinction</i>	Simon Masike
Jeremy Alexander Green Concentration in Management	COMMUNICATIONS	Rohan Ramachandra Mutagi
Thomas Gryz <i>with high distinction</i>	Abdullah Al Dalati Co-operative Education <i>with distinction</i>	Tebatso Nage Minor in Economics <i>with high distinction</i>
Anastasia Emily Helliker <i>with high distinction</i>	Nasser Ahmed Al-Salami	Ilian Nikolov
Tumelo Keitumetse* Minor in Statistics	Ammar Z. AlBetar Co-operative Education <i>with distinction</i>	Ricky Paudyn
Mringi Emmanuel Joseph Kitaly*	James Craig Ball	Jeremy Phan Minor in Economics
Jie Lao Minor in Mathematics <i>with high distinction</i>	James A. C. Bruce*	Ahmad Rasem Co-operative Education <i>with high distinction</i>
Sherif Mahmoud Osama A. Mahmoud*	Hossein Mohamad Chahrour Minor in Mathematics	Soroush Salehian Co-operative Education <i>with distinction</i>
Alexander Robert McAuley <i>with distinction</i>	Chao Chen	Hafeez Ahmed Shaikh
Jeffrey Asher M^rRae <i>with high distinction</i>	Sajeeth Cherian Co-operative Education <i>with high distinction</i>	Dravya Sharma Co-operative Education <i>with high distinction</i>
Thomas G. Miller <i>with distinction</i>	Kyle Dixon <i>with distinction</i>	Natasha Tajik Minor in Mathematics
Douglas Christopher Myles	James Richard Ewert	Peyman Talebi Fard <i>with high distinction</i>
Mark Onaba* Concentration in Management	Nicolas Gravel	Sahba Talebi Fard <i>with high distinction</i>
Michael John Pearson <i>with high distinction</i>	Nicholas Anthony Gysbers Co-operative Education <i>with distinction</i>	Sarah Anne Taylor-Falcioni Co-operative Education <i>with high distinction</i>
Jean-Pierre Perron <i>with high distinction</i>	Qi Hu Minor in Psychology <i>with distinction</i>	Sangetha Thadchanamoorthy
Andrew Michael Pulsifer* Concentration in Management	Raymond A. Janisse	Lei Yu
	Amro Amer Kabbara	Jiesheng Zhu <i>with distinction</i>
	Shaun Keay	
	Kabo Kgwarae Minor in Economics <i>with high distinction</i>	

COMPUTER SYSTEMS		
Jonathan Abrams <i>with distinction</i>	Abes Dabir Co-operative Education <i>with high distinction</i>	Kok Hang Steven Leon-Tang Co-operative Education <i>with high distinction</i>
William Lloyd Atkinson Co-operative Education <i>with high distinction</i>	Saqib Dareshani	Jianning Liu <i>with distinction</i>
Patel Barwabatsile	Alqadir Dhalla Minor in Business	Stephen James Anthony Lombardi
Allan Beharry Co-operative Education <i>with high distinction</i>	Nadeem Douba	Jamie Robert Longmuir Co-operative Education <i>with high distinction</i>
Benjamin Biron Co-operative Education <i>with high distinction</i>	Jeffrey Adam Andrew Dugal	Stephen Lounsbury Co-operative Education <i>with high distinction</i>
Kirill Bocharnikov <i>with distinction</i>	Poopalasingham Elankeswaran Co-operative Education <i>with distinction</i>	Chien Wei Lu
Eric Boyer <i>with high distinction</i>	James Ellwood	Andrew Patrick Lyn Co-operative Education <i>with high distinction</i>
David Bretzlaff Co-operative Education <i>with distinction</i>	Scott Michael Filip	Sanjeeve Manickam
Randall Douglas Cameron <i>with high distinction</i>	Matz Nikolas Finckenstein	Jason Marling Co-operative Education <i>with high distinction</i>
Derek Cy Bill Chan <i>with distinction</i>	Michael Floyd Co-operative Education <i>with high distinction</i>	Colin McCune
Eric Cy Hung Chan* <i>with distinction</i>	Bradley Ford	Maryam Mehdizadeh <i>with distinction</i>
Partheeban Chandrasekaran <i>with distinction</i>	Andrew Brian Fox Co-operative Education <i>with high distinction</i>	Jason Miller Co-operative Education <i>with high distinction</i>
Wen Chan Chang Minor in Business Co-operative Education <i>with distinction</i>	Kambiz Frounchi <i>with high distinction</i>	Said Mohamed*
Sankua Chao Co-operative Education <i>with high distinction</i>	Derek R. Ghosh	Ali Monadi Co-operative Education <i>with distinction</i>
Christopher Lawrence Choquette <i>with distinction</i>	Ross Steven Green <i>with high distinction</i>	Tumediso Mphato
Alex Nathan Chouinard <i>with distinction</i>	Tajwant Singh Hans	Jeevithan Muttulingam Co-operative Education <i>with high distinction</i>
David Alexander Cummings Co-operative Education <i>with high distinction</i>	Belal Hussain Co-operative Education <i>with distinction</i>	Anna Nguyen Co-operative Education <i>with high distinction</i>
	Jawid Ibrahimi	Khac Tien Nguyen
	Andrew J. H. Joe*	Preetham Vishnu Nosum
	Shadya Shaikh Kabir	Kesi-Oluwa Kolawole Olafimihan Minor in Economics
	Mark Johannes Kallio	
	Christopher Morgan King Co-operative Education <i>with high distinction</i>	
	Ming Lee Co-operative Education <i>with high distinction</i>	

Godiraone Pone Minor in Economics	I Hsien Yeh	James A. Diak
Andrew N. Ravindran Minor in Business <i>with high distinction</i>	Jing Mei Zhang	Edward Perrott Hincks
Aheed Ravji	Xi Zhao Co-operative Education <i>with high distinction</i>	Daniel Kgaje*
Eric Richer Lafleche <i>with distinction</i>	ENGINEERING PHYSICS	Geoffrey Koodirile
Ben Jesse Russell	Veljko Bajagic	Maggie Leon* <i>with distinction</i>
Nishanth Santhinathan	Lindsay Anne Beaton Co-operative Education <i>with distinction</i>	Scott Alexander Macdonald
Pierre-Olivier Savoie	Marcin Bienasz <i>with distinction</i>	Mudlovu Otsile Mudlovu
Thaaraha Selvarajah Minor in Mathematics	Wayne Bonnet <i>with high distinction</i>	Jamie Pelletier <i>with high distinction</i>
Kashif Shah	David James Farquharson	Stephanie Olivia Schreiner Co-operative Education <i>with distinction</i>
Tharini Shanmuganathar Minor in Statistics	Norman R. Fong <i>with high distinction</i>	Erik Sean Tolonen Minor in Chemistry
Vasuki Shanmuganathar Minor in Statistics	Ryan Hunter Griffin Co-operative Education <i>with high distinction</i>	Citra Wahyudi Minor in Business <i>with distinction</i>
Maria Simsky <i>with high distinction</i>	Alexei Ivanov Co-operative Education <i>with high distinction</i>	SOFTWARE
Ethan Patrick William Sturrus	David Thomas Jack Co-operative Education <i>with high distinction</i>	Michael Soubine Chun <i>with high distinction</i>
Mayuran Subramaniam Co-operative Education <i>with high distinction</i>	Scott Ronald Newman Co-operative Education <i>with high distinction</i>	Christopher Joonas Donaldson Software Co-operative Education <i>with distinction</i>
Vakeesan Suntharaganeshamoor	Kathryn Louise Oraas <i>with high distinction</i>	John Duff
Soumeya Tarfi*	Christopher Quizi	Andrew Michael Dunbar Co-operative Education <i>with high distinction</i>
Percy Thozamile Thaba	Jennifer Margarete Renaud Co-operative Education <i>with high distinction</i>	Matthew Stephen Felske
Gayathiri Tharmakulasingam <i>with high distinction</i>	Jason E. Shaver <i>with high distinction</i>	Peter Daniel Foo
Benjamin David Tiessen Co-operative Education <i>with distinction</i>	Alexander William David Tomkins <i>with high distinction</i>	Chow Yee Lim
Thomas Christian Von Moos Co-operative Education <i>with high distinction</i>	ENVIRONMENTAL	Jeremy Mah
Daniel David Webster*	Damien Cote B.A. <i>with high distinction</i>	Elias Majic*
Liang Xu <i>with distinction</i>		Robert Mares
		Sharif Mattar
		Yevhen Rachitskiy Co-operative Education

Sherwin Dic Dee Sim Co-operative Education <i>with distinction</i>	Jay William Brauneisen	Wai Tang Lam <i>with distinction</i>
Ajanth Rogers Singherayor Co-operative Education <i>with high distinction</i>	Mitchell Francis Chan <i>with distinction</i>	Melanie Suzanne Lamontagne <i>with high distinction</i>
Devin Joseph Steffler Co-operative Education <i>with high distinction</i>	Carmen Lik Man Cheung <i>with distinction</i>	Selina Sze-Yu Leung Co-operative Education <i>with high distinction</i>
Rajatheepon Thiagarajah	Chi Ying Cheung	Veronique Leyten Co-operative Education <i>with high distinction</i>
Kokulathas Thurairajah	Madalena M. Cheung*	Ophelia Chai Shing Liew Co-operative Education <i>with distinction</i>
Edgar Tomek Co-operative Education <i>with high distinction</i>	Karen Eleanor Conty <i>with high distinction</i>	Andrew MacIntosh <i>with distinction</i>
Simon Wing-Hang Tse Co-operative Education <i>with high distinction</i>	Geraldine Camilla Dabu <i>with high distinction</i>	Tung Duong Tom Ngo <i>with distinction</i>
Endre Voros <i>with distinction</i>	Nathan John Dykstra <i>with high distinction</i>	Ahmed Pouladi
George C. Walke	Leila Nathania Emmrys <i>with high distinction</i>	Venkatesh Prabhu <i>with distinction</i>
Sudarsha D. A. Wijenayake Co-operative Education <i>with high distinction</i>	Bradley Emsley	Michael Putman <i>with high distinction</i>
Yong Zhang <i>with high distinction</i>	Mu-Chih Peter Fan Chiang Co-operative Education	Gerald Reibling <i>with distinction</i>
Bachelor of Architectural Studies	Kelly Ann Gartner <i>with distinction</i>	Erik Shin Rossmann <i>with distinction</i>
Associate Professor Lucie Fontein, Associate Director (Graduate) of the School of Architecture	Da Hsuan Hsu <i>with distinction</i>	Dina Magdi Sarhane <i>with distinction</i>
Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)	Nathan Tyler Jensen Co-operative Education <i>with high distinction</i>	Aba Simpson <i>with distinction</i>
Candice April Allen	Jon Nathan Jeronimus <i>with distinction</i>	Kyla Jane Simpson
Chloe Larissa Allin <i>with high distinction</i>	Juan Carlos Jimenez Martinez	Jessie Elicia Smith <i>with distinction</i>
Jennifer Anne Nicolette Azzopardi <i>with distinction</i>	Maria Mercedes Jimenez Martinez	Richard Smith <i>with distinction</i>
Patrick Bisson <i>with high distinction</i>	Edward Sung Ho Kim <i>with distinction</i>	Edward Solodukhin <i>with distinction</i>
Mathieu Blais <i>with distinction</i>	William Klassen <i>with high distinction</i>	Morgan Alexander Tang <i>with high distinction</i>
	Vincent Pak Ho Ko Co-operative Education	Houng C. Te Co-operative Education <i>with distinction</i>
	Rheal J. C. Labelle <i>with distinction</i>	

Amber Rochelle Trimble*
with high distinction

Po Chieh Tseng
with distinction

Nicolas Enrique Valenzuela
with high distinction

Linn Kristin Waardahl
with distinction

Alexsandra Wendzich

Al Rich Ting Yan Yeung

Anita Sze Men Yu
with high distinction

Medallists in the Graduating Class

The Governor General's Medal - Bachelor's Level

Awarded annually to a student standing at the head of the graduating class at the bachelor's level.
Donor: Her Excellency the Governor General of Canada.

Sahba Talebi Fard
*Bachelor of Engineering
Communications
with high distinction*

University Medals (Undergraduate)

Awarded annually, when merited, to the graduating students standing highest in architecture, architectural studies, arts, commerce, computer science, engineering, humanities, industrial design, interfaculty studies, international business, journalism, mathematics, music, public administration, public affairs and policy management, science, and social work.

University Medal in Architecture
Karen Eleanor Conty
*Bachelor of Architectural Studies
with high distinction*

University Medal in Engineering
Jeevithan Muttulingam
*Bachelor of Engineering
Computer Systems
with high distinction*

Senate Medals

Awarded, when merited, to graduating students of outstanding academic achievement.

Undergraduate Level

Bachelor of Architectural Studies

Chloe Larissa Allin
with high distinction

Selina Sze-Yu Leung
with high distinction

Amber Rochelle Trimble
with high distinction

Bachelor of Engineering (Civil)

Jeffrey Asher McRae
with high distinction

Jean-Pierre Perron
with high distinction

Bachelor of Engineering (Communications)

Sajeeth Cherian
with high distinction

Ahmad Rasem
with high distinction

Dravya Sharma
with high distinction

Peyman Talebi Fard
with high distinction

Sarah Anne Taylor-Falcioni
with high distinction

Bachelor of Engineering (Computer Systems)

Benjamin Biron
with high distinction

Randall Douglas Cameron
with high distinction

David Alexander Cummings
with high distinction

Abes Dabir
with high distinction

Kambiz Frounchi
with high distinction

Christopher Morgan King
with high distinction

Kok Hang Steven Leon-Tang
with high distinction

Jamie Robert Longmuir
with high distinction

Jason Marling
with high distinction

Maria Simsky
with high distinction

Thomas Christian Von Moos
with high distinction

Xi Zhao
with high distinction

Bachelor of Engineering (Engineering Physics)

Wayne Bonnet
with high distinction

Ryan Hunter Griffin
with high distinction

David Thomas Jack
with high distinction

Kathryn Louise Oraas
with high distinction

Alexander William David Tomkins
with high distinction

Bachelor of Engineering (Environmental)

Jamie Pelletier
with high distinction

Bachelor of Engineering (Software)

Michael Soubine Chun
with high distinction

Ajanth Rogers Singherayor
with high distinction

Devin Joseph Steffler
with high distinction

Simon Wing-Hang Tse
with high distinction

Sudarsha D. A. Wijenayake
with high distinction

Yong Zhang
with high distinction

*The following additions and/or corrections were made
by Senate after publication of the 2005 Fall Convocation
Program*

Bachelor of Arts (Honours)

Moshen Nasrin
Honours in Film Studies

Mary-Anne Elizabeth Day
Honours in Criminology and
Criminal Justice
Concentration in Sociology

David Alexander Goodhope
Honours in Criminology and
Criminal Justice
Concentration in Psychology

Amanda Sheane
Honours in English and Law

Bachelor of Commerce (Honours)

Olga Dziunycz
Honours
Concentration in Accounting

Thomas Dean Lingard
Honours

Alyyah Rhemtulla
Honours
Concentration in Information Systems

Bachelor of Science

Mike Robinson
Chemistry

Bachelor of Arts

Melanie May Dorothea Cody
Psychology
with distinction

Aws Shahen
Economics

Tiffany Wang
Economics
Minor in Business

Suzie Desrollines
Psychology



